

SPECIMIN 1-DCH-5704
130 PSF

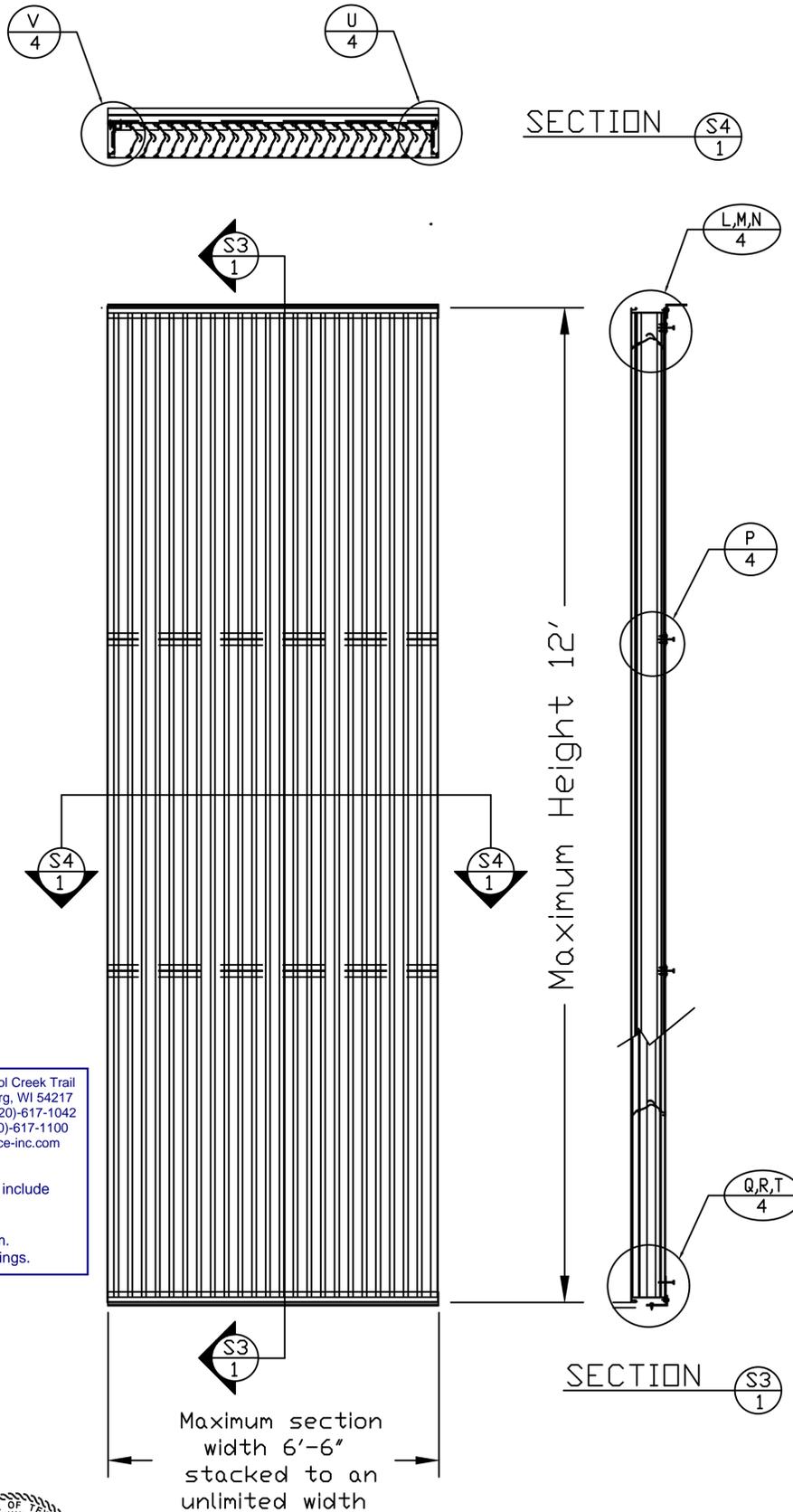
- 1) It shall be the responsibility of the Structural Engineer of Record to verify the capacity of the structure to support the loads imposed by the louvers.
- 2) These louvers have been designed and tested in accordance with Dade County protocols TAS 201, TAS 202 and TAS 203.
- 3) All fasteners shall be stainless steel or series 300 fasteners including Concrete, Masonry, and Wood Fasteners.
- 4) All concrete substrate shall be a minimum of 2500 psi, cracked, normal weight. Grout filled CMU: $f_m=1,500$ psi, normal weight. ASTM C-90.
- 5) Maximum single panel size: 144" w x 78" h (DCH-5704) or 78" w x 144" h (DCV-5704). For the DCH-5704, multiple panels may be stacked to an unlimited height if each end of the 144" panel is secured to structure. If the DCH-5704 is joined together with vertical joint (refer to sheet 8 of 8), then the number of panels that may be stacked is limited to the design of the mullions shown on sheet 8 of 8. For the DCV-5704, multiple panels may be placed side by side for an unlimited width.
- 6) The louver is to be installed in a location where the room behind the louver is designed to drain water penetrating into the room and the room will house waterproof or water resistant equipment, components or supplies.
- 7) Jamb clip spacing may not be altered. Each clip and fastener used must be detailed on the drawing and verified in the tables on sheet 6 of 8.
- 8) Separation of unpainted aluminum and dissimilar materials to be maintained by the installer
- 9) The design of the louvers is according to the following codes and standards;
 - The 2018 International Building Code
 - AMCA 540
 - ADM - Aluminum Association Design Manual
- 10) This louver system has been tested, analyzed and approved for design pressures not to exceed 150 PSF.
- 11) See sheet 2 of 8 for louver size vs windload table
- 12) These louvers may be used with the blades in a horizontal orientation under model name DCH-5704 or with blades in a vertical orientation under model name DCV-5704.
- 13) At the sill, the jamb is square cut and butted onto the sill and held with two #10 X 1-1/2" SS pan head screws.
- 14) The head extrusion is square cut and butted into the jamb and held with two #10 X 1-1/2" inch SS pan head screws.
- 15) For blades in a horizontal orientation, the blades are attached to vertical jambs with two #10 X 1-1/2" inch SS pan head screws at each blade end.
- 16) For blades in a vertical orientation, the blades are attached to the head and sill with two #10 X 1-1/2" inch SS pan head screws at each blade end.
- 17) Blades are attached to shaped louvers with two 5/8" x 1/8" fillet welds at each blade end, see detail W/5.
- 18) The louver assembly satisfies the Texas Department of Insurance's criteria for protection from windborne debris.

RICE ENGINEERING

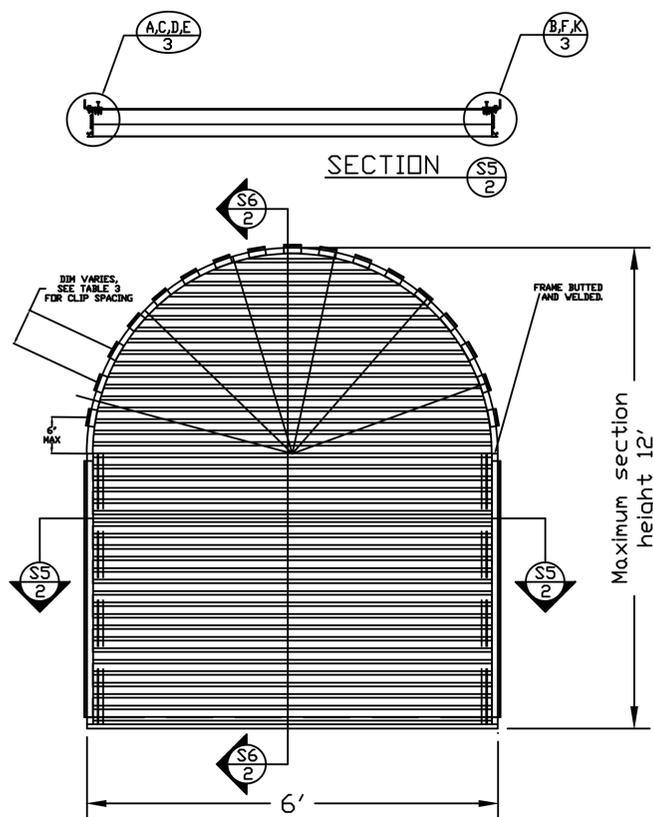
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920)-617-1042
Fax: (920)-617-1100
www.rice-inc.com

This Certification is limited to the structural design of the structural components of this louver system. It does NOT include responsibility for:

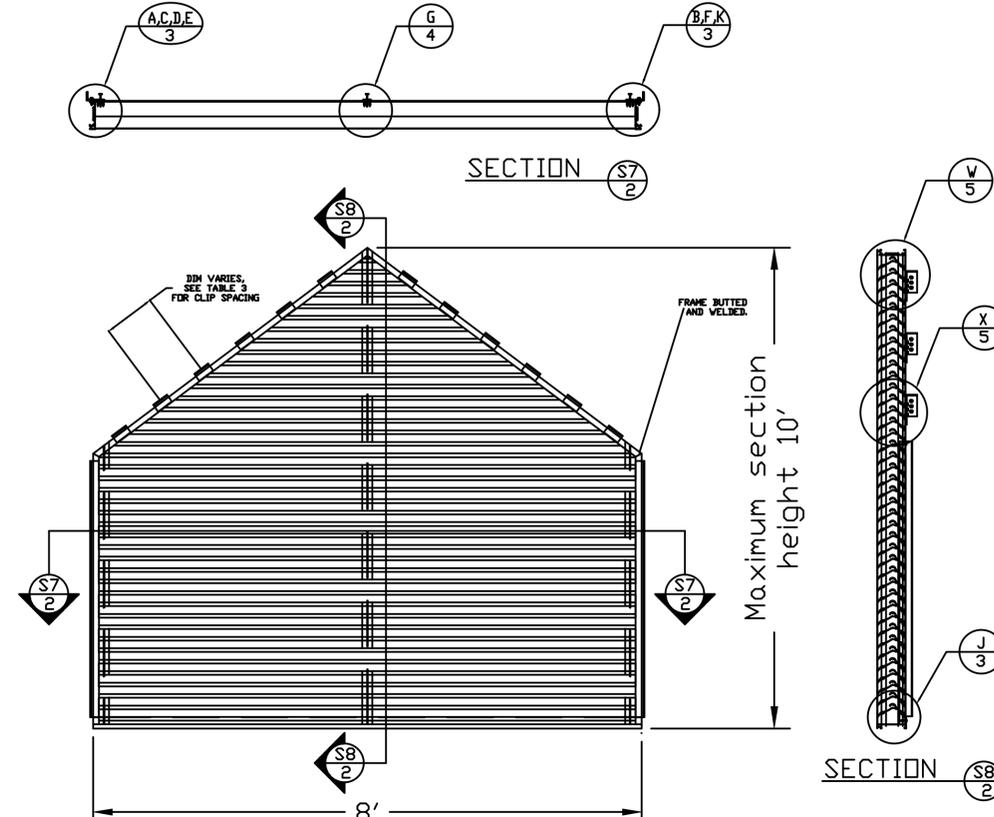
- * Design of air and water infiltration prevention
- * The manufacture, assembly, or installation of the system.
- * Quantities of materials or dimensional accuracy of drawings.



SPECIMIN 2-DCV-5704
130 PSF

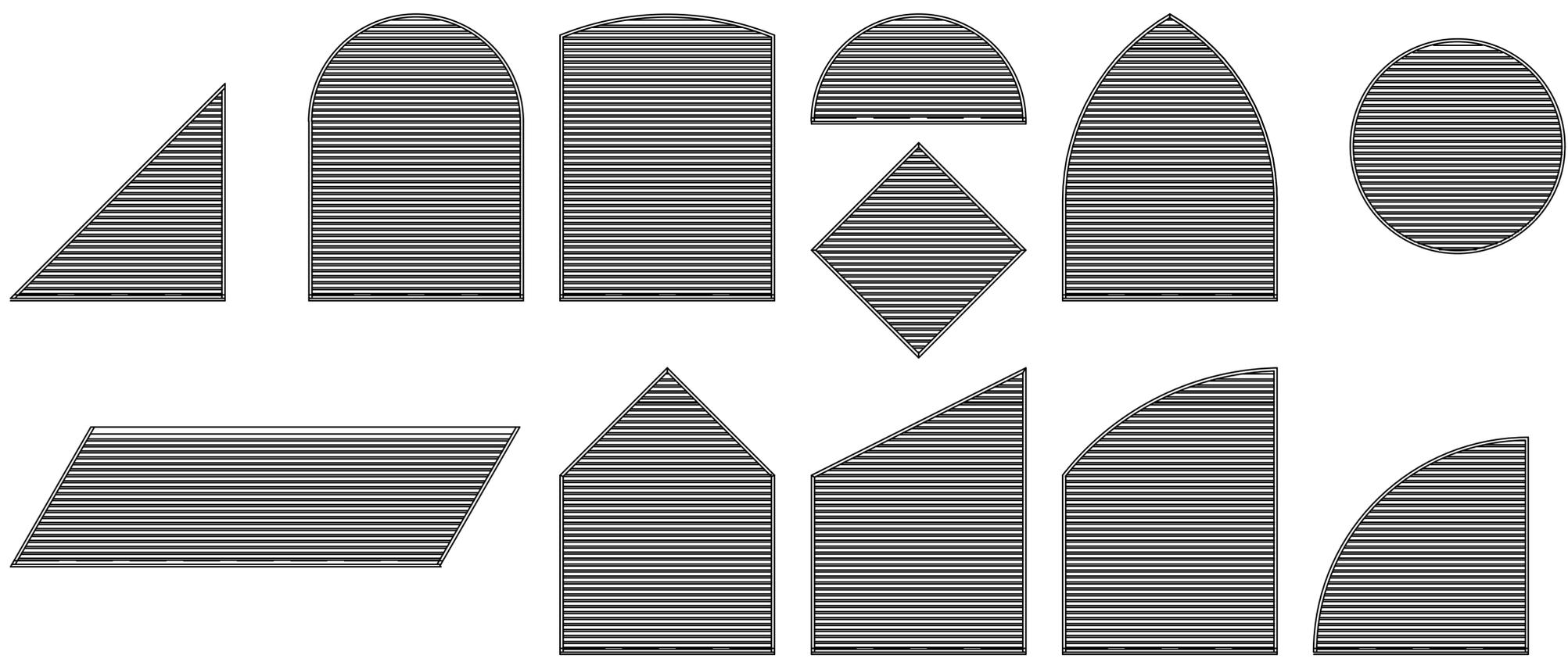


SPECIMIN 3
150 PSF



SPECIMIN 4
150 PSF

Louver Size versus Windload Table			
Louver dimension (parallel to blade length) (feet & inches)	Maximum Windload PSF	Ref. Specimen	Number of Intermediate Blade Stiffeners
6'-0" or less	150	Specimen 3	0
6'-0 1/16" to 8'-0"	150	Specimen 4	1
8'-0 1/16" to 12'-0"	130	Specimen 1 & 2	2

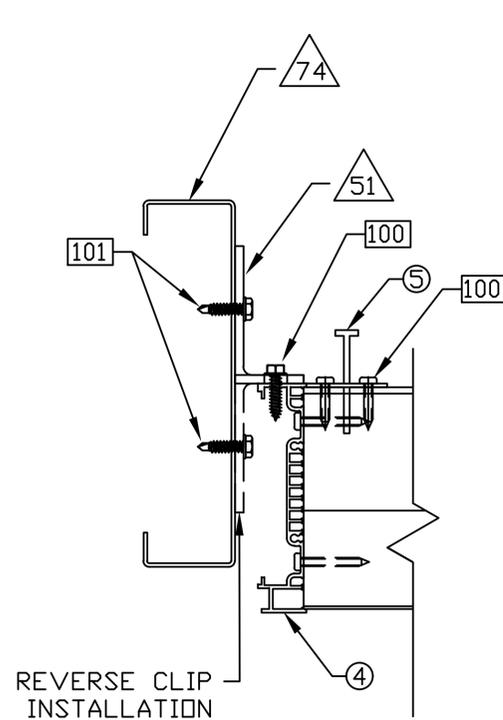


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 TITLE: LAYOUT DRAWINGS
 SCALE: 3/8" = 1'-0"
 DRW BY: R. GEIST

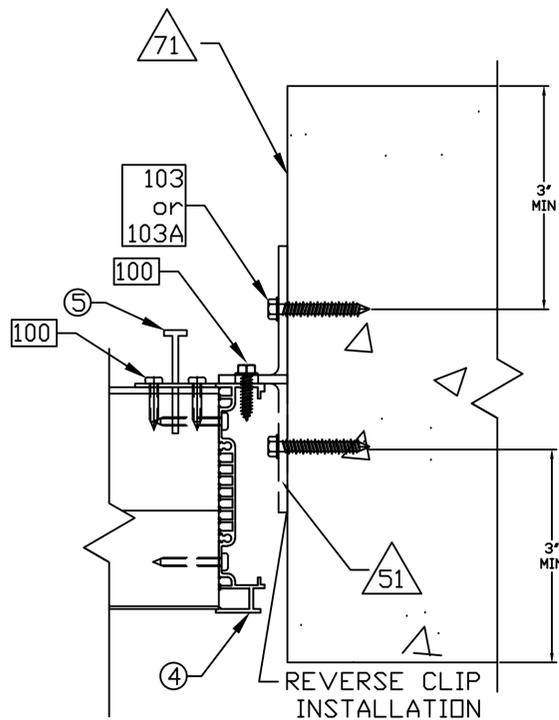
REVISION: 2 01-08-2022
 DATE: 10-02-08
 SHEET: 2 OF 8
 DRW NO: RD-1075

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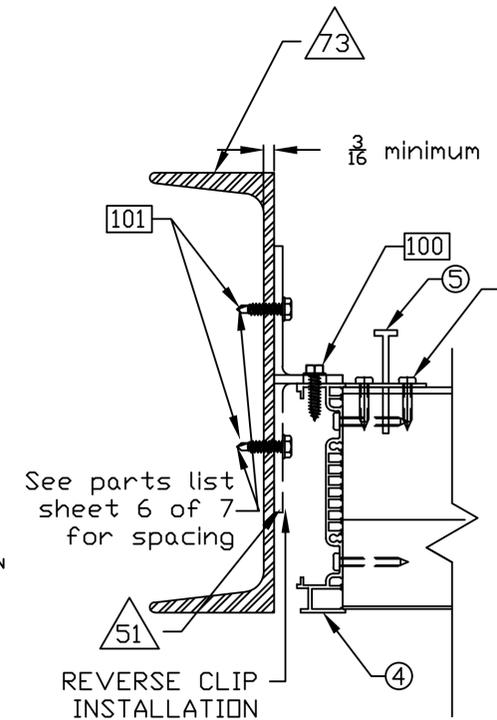




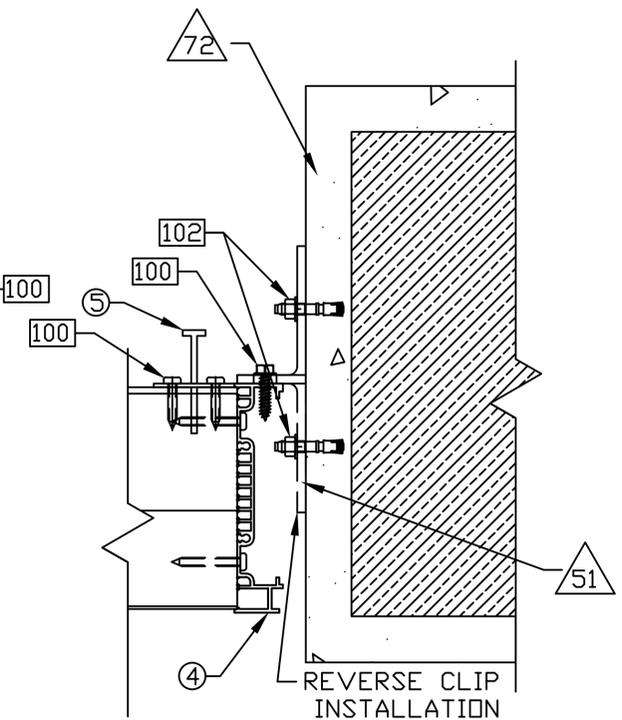
16 Ga MIN GALVANIZED
STRUCTURAL STEEL STUD
Detail
SCALE: NTS
SP-1,3 & 4



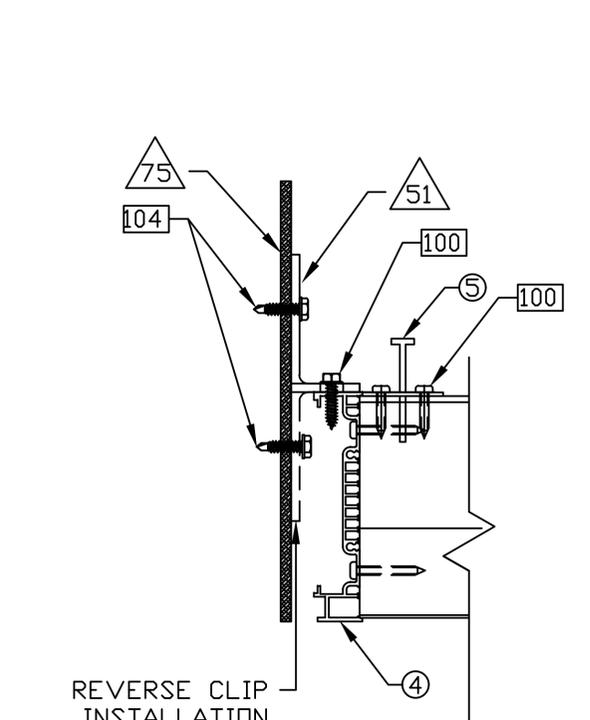
2500 LB MIN
CONCRETE
Detail
SCALE: NTS
SP-1,3 & 4



3/16" MINIMUM
STRUCTURAL STEEL
Detail
SCALE: NTS
SP-1,3 & 4

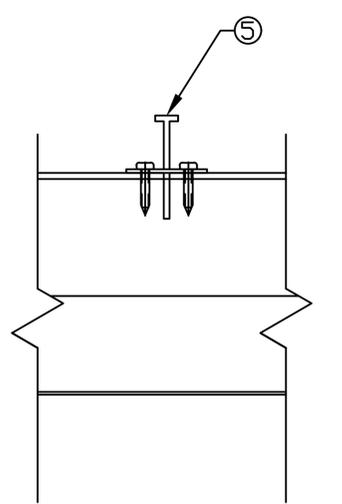


CONCRETE FILLED
CMU
Detail
SCALE: NTS
SP-1,3 & 4

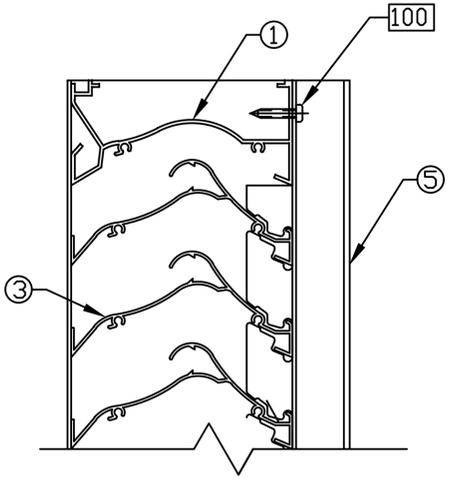


1/8" MINIMUM
ALUMINUM PLATE
Detail
SCALE: NTS
SP-1,3 & 4

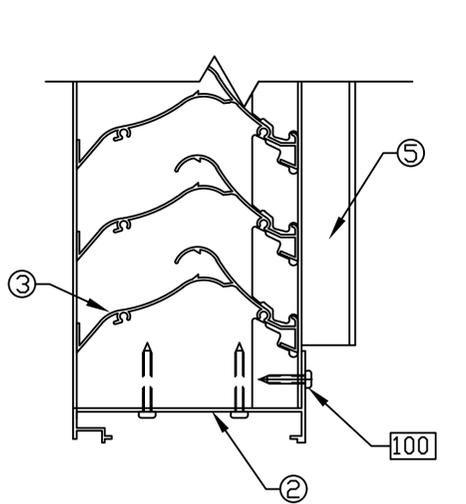
THESE DETAILS
PERTAIN TO THE
HORIZONTAL BLADE
ORIENTATION,
DCH-5704



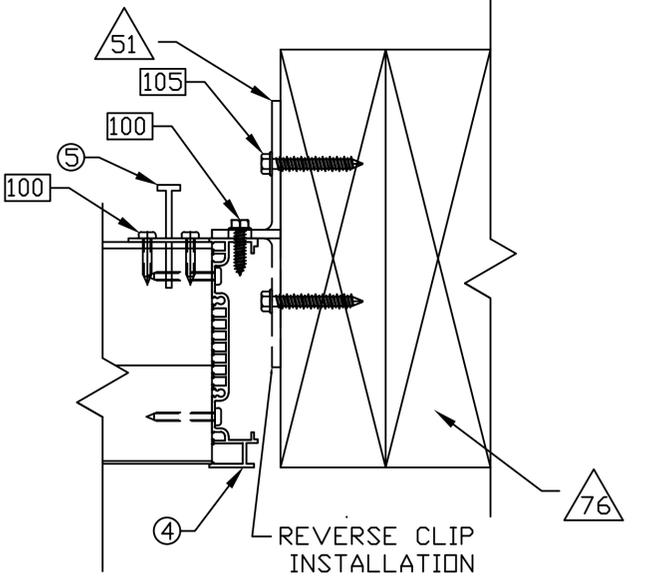
Detail
SCALE: NTS
SP-1 & 4



Detail
SCALE: NTS
SP-1



Detail
SCALE: NTS
SP-1,3 & 4



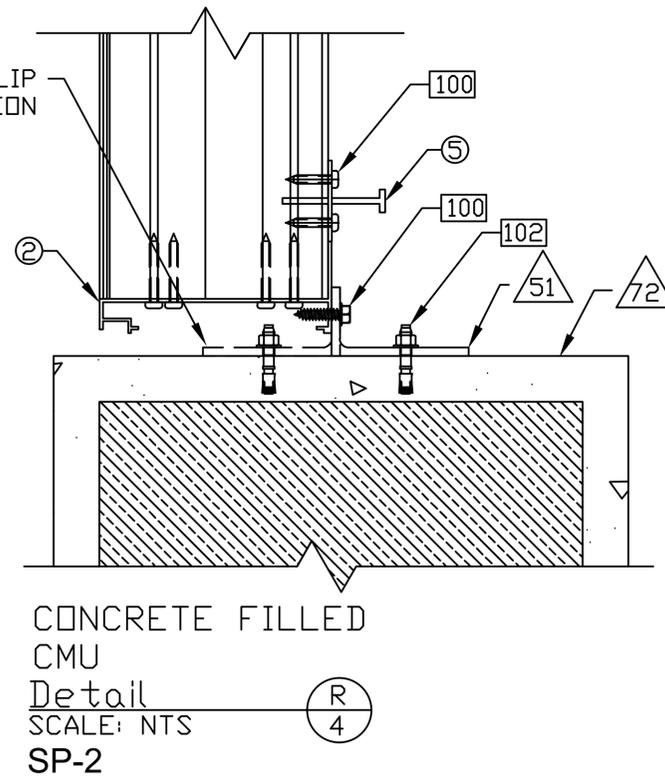
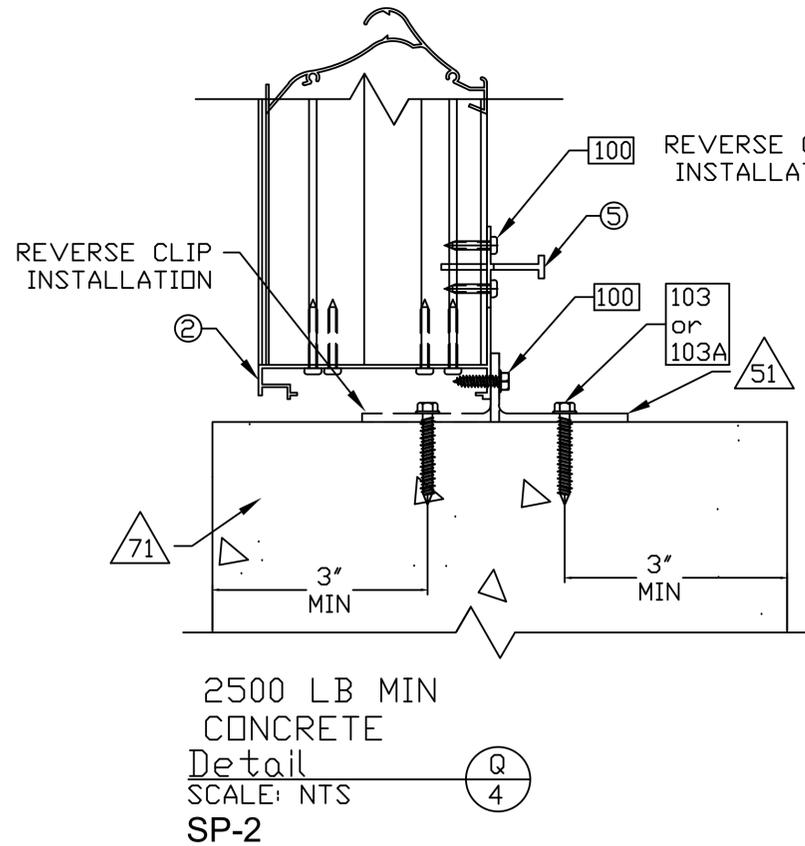
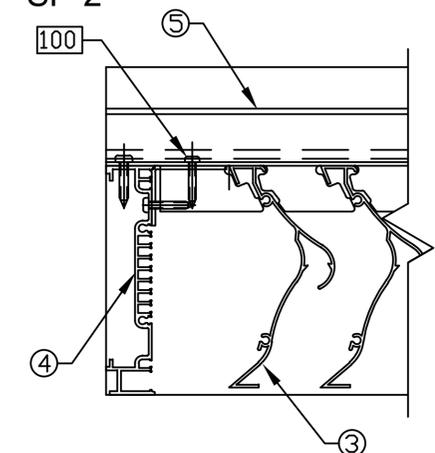
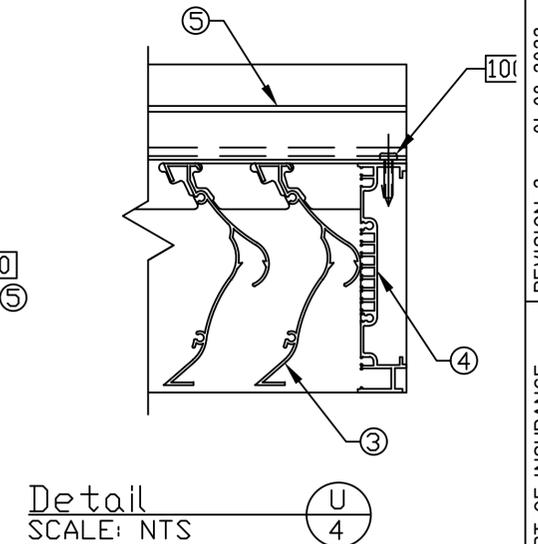
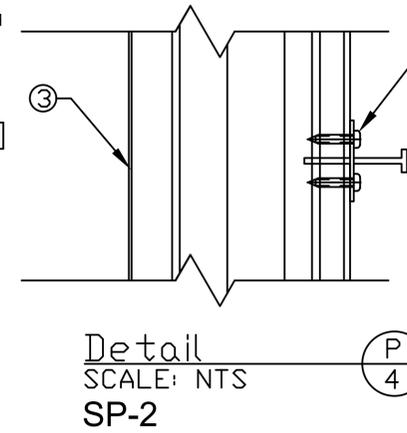
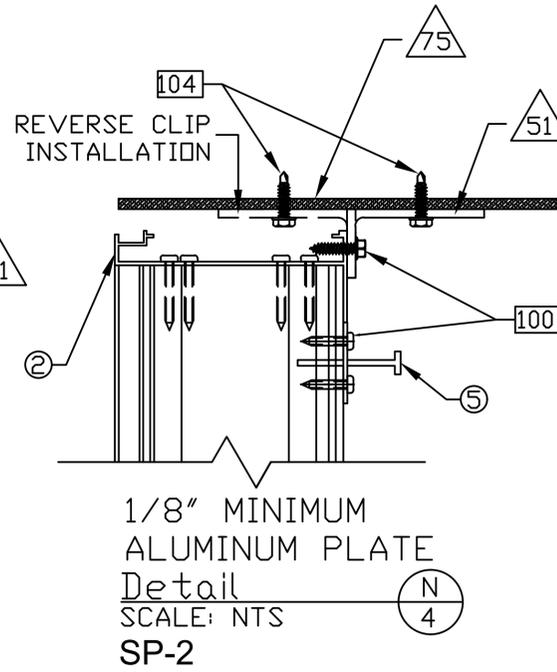
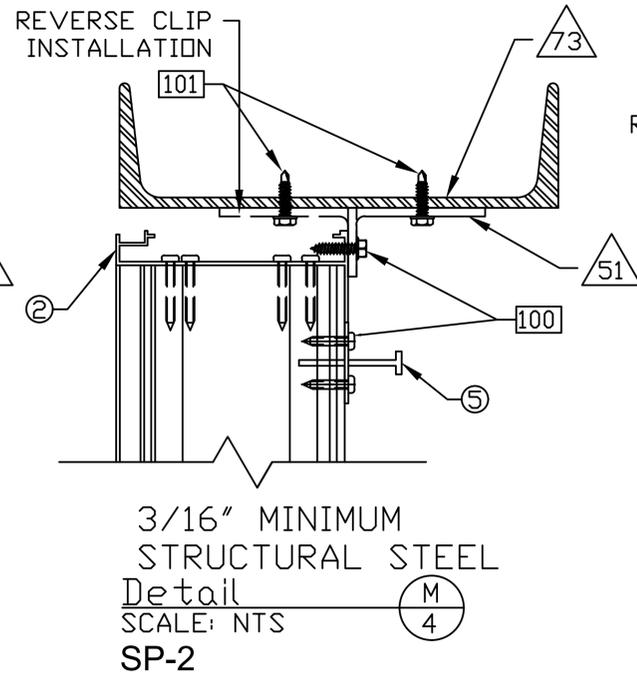
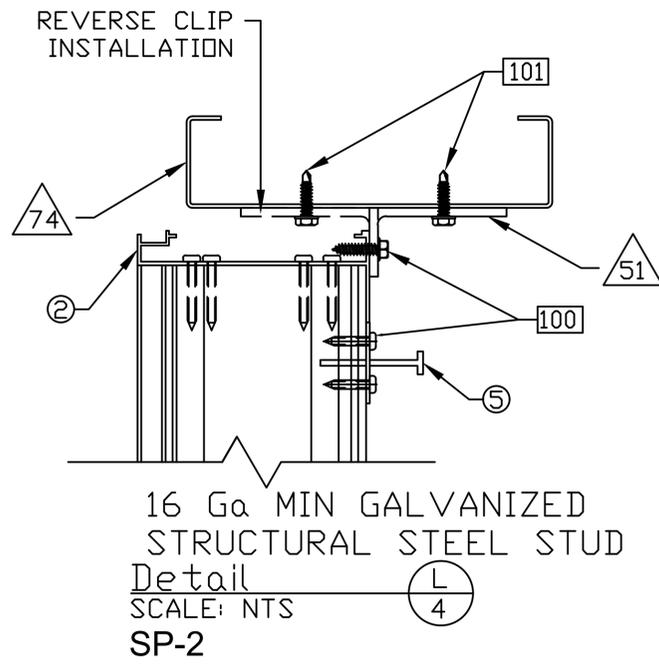
WOOD
G=0.42 MIN.
Detail
SCALE: NTS
SP-1,3 & 4



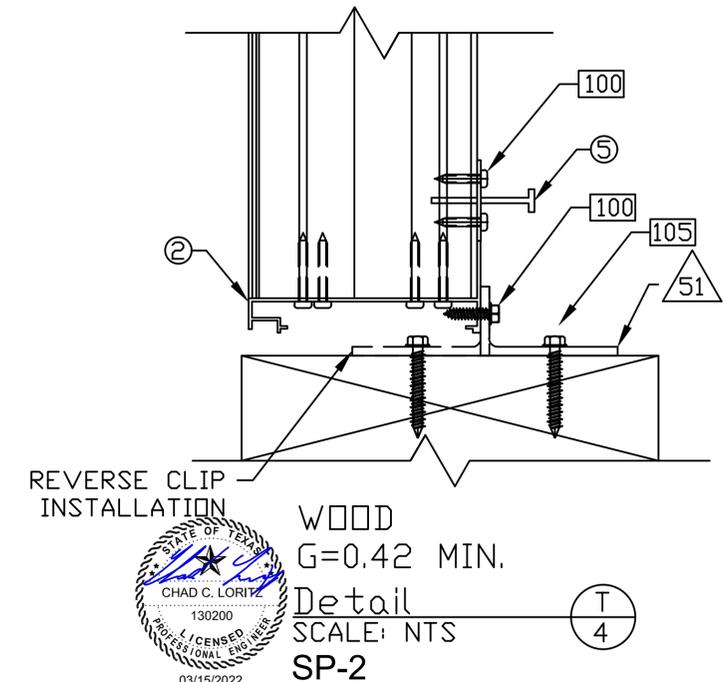
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SHEET: 3 OF 8
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THESE DETAILS PERTAIN TO THE VERTICAL BLADE ORIENTATION, DCV-5704

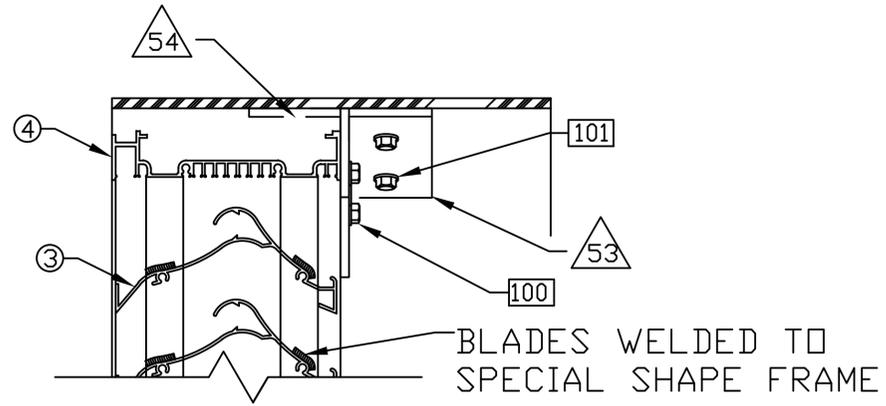


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 TITLE: LAYOUT DRAWINGS
 SCALE: 3"=1'-0"
 DRW BY: R. GEIST

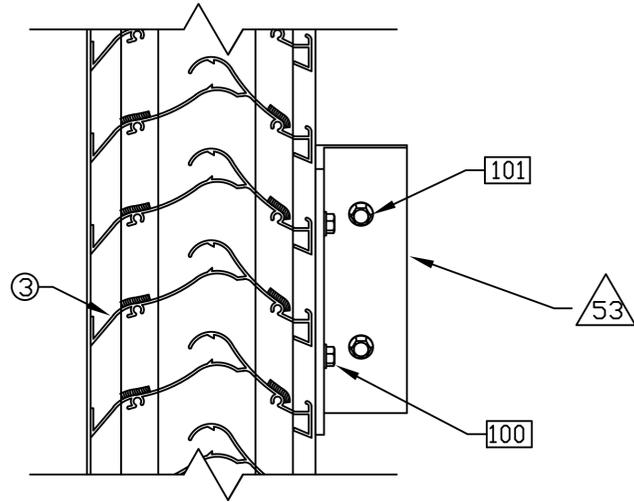
REVISION: 2 01-08-2022
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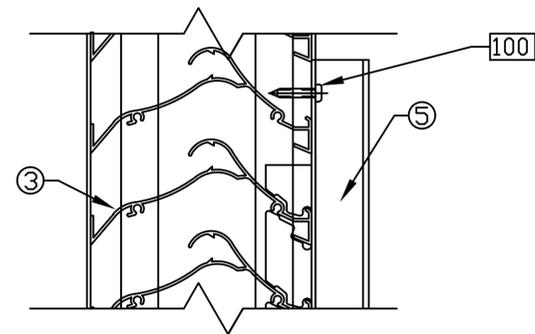




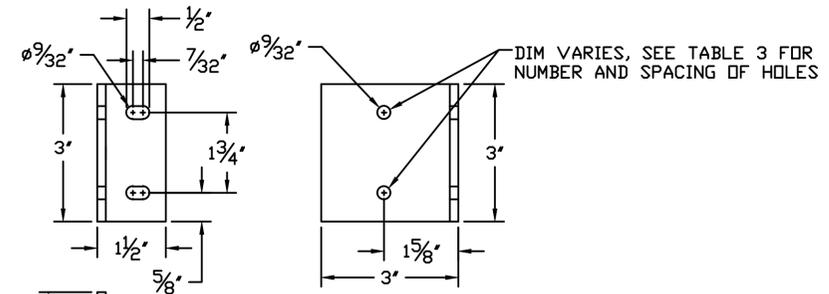
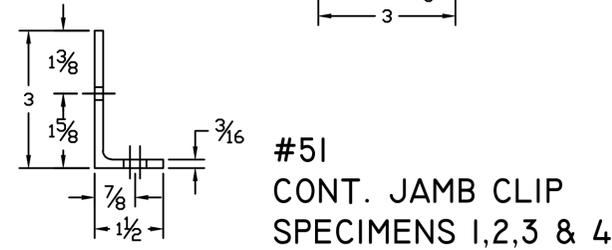
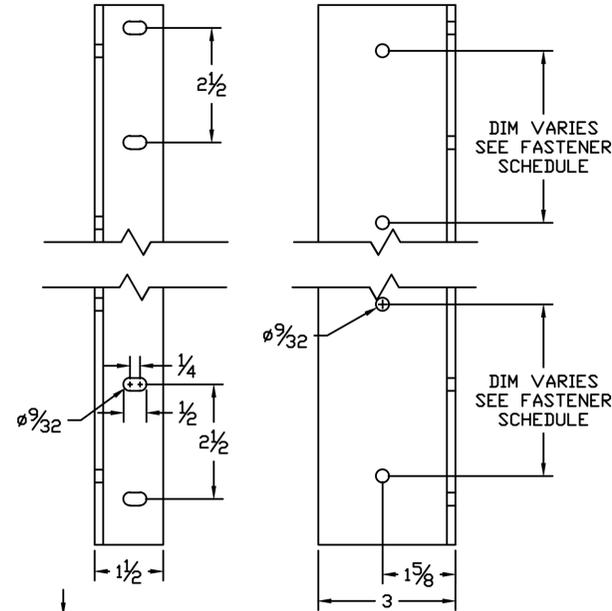
Detail W
SCALE: NTS
SP-3 & 4



Detail X
SCALE: NTS
SP-3 & 4

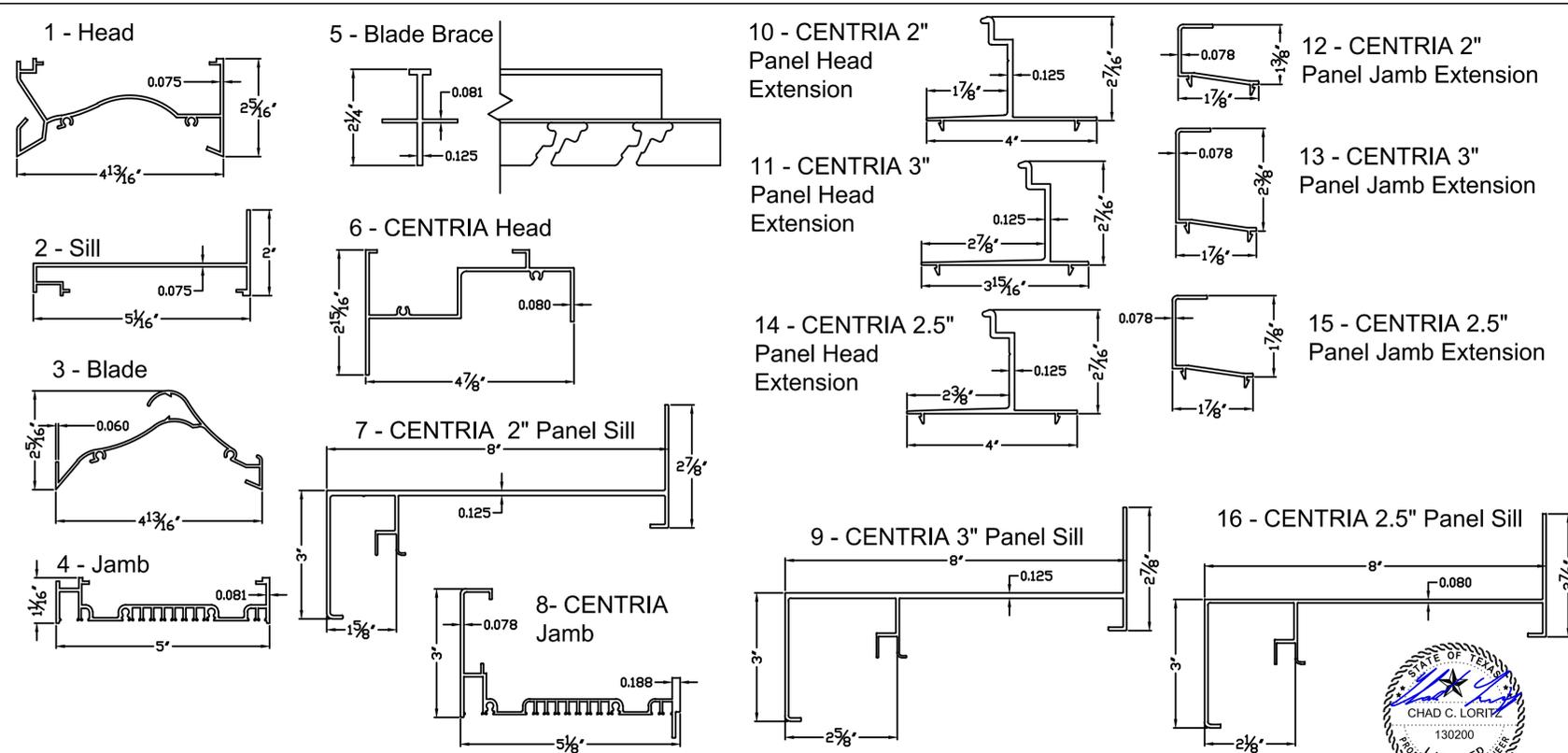


Detail Y
SCALE: NTS
SP-3 & 4



#53
JAMB CLIP
SPECIMEN 3 & 4
3"x2"x3/16" CLIP
ANGLE CUT TO
3"x1-1/2"x3" LG





Part Num.	Fastener Description	Substrate	Max Spacing	Min. Edge Dist.	Min. embed.
100	1/4"-14 Dia S.S. 300 Series screws OR 1/4"-14 Dia. Carbon Steel Screws w/ Liquid Prosoco Flashing (or Sealed w/ an equal product)	0.081 Aluminum Mullion	2-1/2"	3/8"	NA
101	1/4"-14 Dia S.S. 300 Series screws OR 1/4"-14 Dia. Carbon Steel Screws w/ Liquid Prosoco Flashing (or Sealed w/ an equal product)	.060 Cold Formed Steel	4-1/4"	1/2"	NA
101	1/4"-20 Dia S.S. 300 Series screws OR 1/4"-20 Dia. Carbon Steel Screws w/ Liquid Prosoco Flashing (or Sealed w/ an equal product)	3/16" Structural Steel	6-1/4"	1/2"	NA
102	1/4" Dia. Dewalt Galvanized screw-Bolt+ w/Liquid Prosoco Flashing (or sealed w/ an equal product)** or equiv.	1500 lb min. Grout Filled CMU	3-1/2"	3"	2-1/2"
103	1/4" Dia. Dewalt Galvanized Screw-Bolt+ w/Liquid Prosoco Flashing (or sealed w/ an equal product)** or equiv.	2500 lb Cracked Concrete (min. 6" slab thickness)	3"	3"	2-1/2"
103A	3/8" Dia. Dewalt Galvanized Screw-Bolt+ w/Liquid Prosoco Flashing (or sealed w/ an equal product)** or equiv.	2500 lb Cracked Concrete (min. 6" slab thickness)	6"	3"	2"
104	1/4"-14 Dia. S.S. 300 Series screws OR 1/4"-14 Dia. Carbon Steel Screws w/ Liquid Prosoco Flashing (or Sealed w/ an equal product)	Aluminum (1/8" Min)	3-1/2"	1/2"	NA
105	1/4" Dia. SS Lag screws 300 Series OR 1/4" Dia. Carbon Steel Lag Screws w/ Liquid Prosoco Flashing (or sealed w/ an equal product)	Wood	3"	1"	3"
106	1/4" SS Series 300 self drilling or self tapping sheet metal screw	3/16" Structural Steel	See Sheet 7	1/4"	NA

TABLE 1 - PARTS LIST

ITEM	PART	DESCRIPTION
1	HEAD	6063-T6 ALUMINUM 0.075 THK
2	SILL	6063-T6 ALUMINUM 0.075 THK
3	BLADE	6063-T6 ALUMINUM 0.060 THK
4	JAMB	6063-T6 ALUMINUM 0.081 THK
5	BLADE BRACE	6063-T6 ALUMINUM 0.125 THK
6	CENTRIA HEAD	6063-T6 ALUMINUM 0.080 THK
7	CENTRIA 2" PANEL SILL	6063-T6 ALUMINUM 0.125 THK
8	CENTRIA JAMB	6063-T6 ALUMINUM 0.078 THK
9	CENTRIA 3" PANEL SILL	6063-T6 ALUMINUM 0.125 THK
10	CENTRIA 2" PANEL HEAD EXTENSION	6063-T6 ALUMINUM 0.125 THK AT BUILDING CONNECTION
11	CENTRIA 3" PANEL HEAD EXTENSION	6063-T6 ALUMINUM 0.125 THK AT BUILDING CONNECTION
12	CENTRIA 2" PANEL JAMB EXTENSION	6063-T6 ALUMINUM 0.078 THK
13	CENTRIA 3" PANEL JAMB EXTENSION	6063-T6 ALUMINUM 0.078 THK
14	CENTRIA 2.5" PANEL HEAD EXTENSION	6063-T6 ALUMINUM 0.125 THK AT BUILDING CONNECTION
15	CENTRIA 2.5" PANEL JAMB EXTENSION	6063-T6 ALUMINUM 0.078 THK
16	CENTRIA 2.5" PANEL SILL	6063-T6 ALUMINUM 0.080 THK
17	FRAME SPLICE COVER	3003 ALUMINUM 0.060 THK
51	JAMB ANGLE	1 1/2"x3"x3/16" CONT. ALUM ANGLE - 6061 T6
53	JAMB CLIP ANGLE	2"x3"x3/16"x3"LG ALUM. JAMB CLIP ANGLE - 6061 T6
54	BRACE CLIP ANGLE	2"x2"x3/16"x3"LG ALUM. JAMB CLIP ANGLE - 6061 T6
71	CONCRETE	2500# CONCRETE
72	CMU	GROUT FILLED CONCRETE MASONRY UNIT
73	STRUCTURAL STEEL	3/16" THK MIN., A-36 STEEL, Fy = 36 ksi min.
74	STEEL STUD	16 GA MINIMUM, Fy = 50 ksi min.
75	ALUMINUM STRUCTURE	1/8" MINIMUM, 6063-T5 DR BETTER, RECOMMEND LOCTITE
76	WOOD	SPRUCE PINE FIR, SG = 0.42 MINIMUM

** INSTALL PER FASTENER MANUFACTURER'S INSTRUCTIONS

ALL S.S. ANCHORS SPECIFIED IN THIS CONTINUOUS CLIP FASTENER SCHEDULE TAPE 2 MUST BE SERIES 300 S.S.

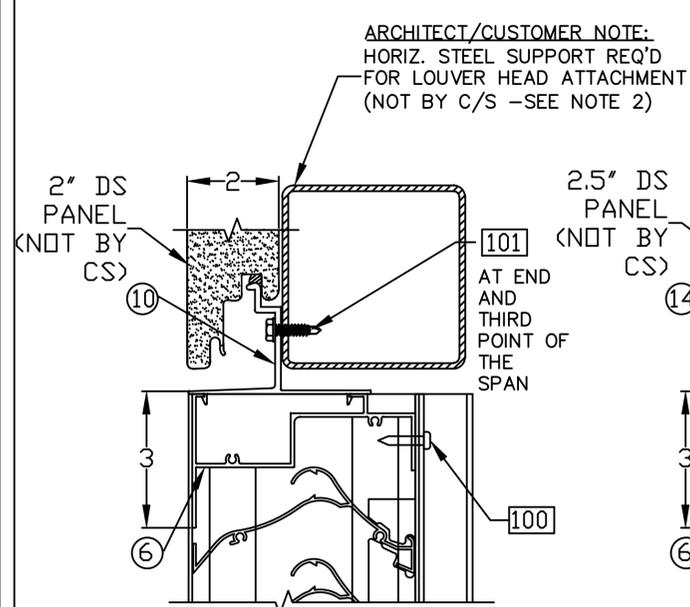
Special Shape Louver Fastener Schedule - Clips 1-1/2" x 3" x 3" long (Table 3)

Part Num.	Fastener Description	Substrate	Num. Screws	Screw Spacing	Min. Edge Dist.	Min. embed.	Clip Spacing
100	1/4"-14 Dia. S.S. 300 Series screws OR 1/4"-14 Dia. Carbon Steel Screws w/ Liquid Prosoco Flashing (or Sealed w/ an equal product)	0.081 Aluminum Mullion	2	1 3/4"	NA	NA	NA
101	1/4"-14 Dia. S.S. 300 Series screws OR 1/4"-14 Dia. Carbon Steel Screws w/ Liquid Prosoco Flashing (or Sealed w/ an equal product)	.060 Cold Formed Steel	2	1 3/4"	NA	NA	7"
101	1/4"-20 Dia. S.S. 300 Series screws OR 1/4"-20 Dia. Carbon Steel Screws w/ Liquid Prosoco Flashing (or Sealed w/ an equal product)	3/16" Structural Steel	2	1 3/4"	NA	NA	7"
102	1/4" Dia. Dewalt Galvanized screw-Bolt+ w/Liquid Prosoco Flashing (or sealed w/ an equal product)** or equiv.	1500 lb min. Grout Filled CMU	2	2"	3"	2-1/2"	7"
103	1/4" Dia. Dewalt Galvanized Screw-Bolt+ w/Liquid Prosoco Flashing (or sealed w/ an equal product)** or equiv.	2500 lb Cracked Concrete (min. 6" slab thickness)	2	1 3/4"	3"	2-1/2"	7"
104	1/4"-14 Dia. S.S. 300 Series screws OR 1/4"-14 Dia. Carbon Steel Screws w/ Liquid Prosoco Flashing (or Sealed w/ an equal product)	Aluminum (1/8" Min)	2	1 3/4"	1/2"	NA	7"
105	1/4" Dia. SS Lag screws 300 Series OR 1/4" Dia. Carbon Steel Lag Screws w/ Liquid Prosoco Flashing (or sealed w/ an equal product)	Wood	2	1 3/4"	1"	3"	7"

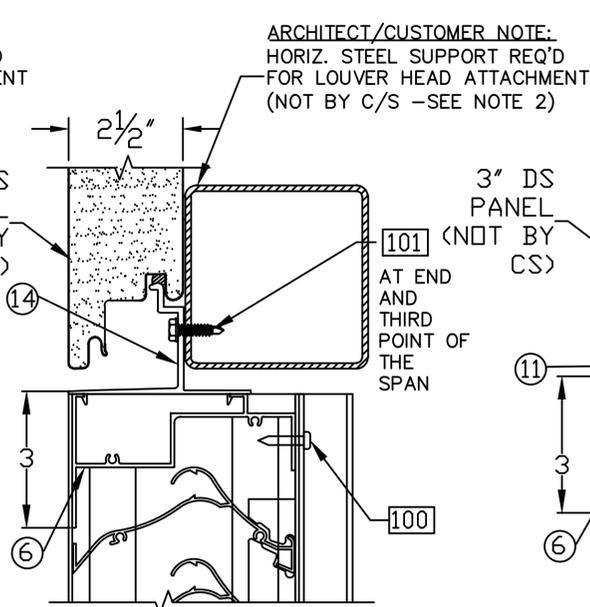
ALL S.S. ANCHORS SPECIFIED IN THIS SPECIAL SHAPE LOUVER FASTENER SCHEDULE TABLE 3 MUST BE SERIES 300 S.S.

PROJECT: DC-5704 FOR TEXAS DEPT OF INSURANCE
 TITLE: LAYOUT DRAWINGS
 SCALE: HALF
 DRW BY: R. GEIST
 REVISION: 2 01-08-2022
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 SHEET: 6 OF 8

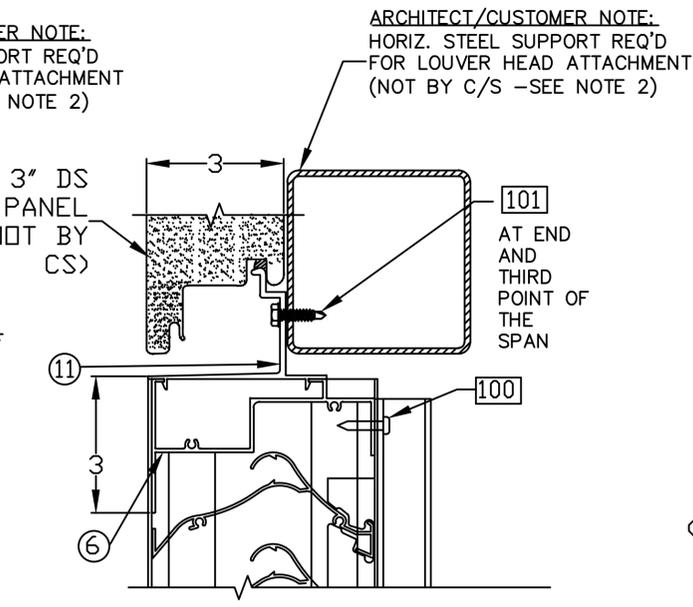




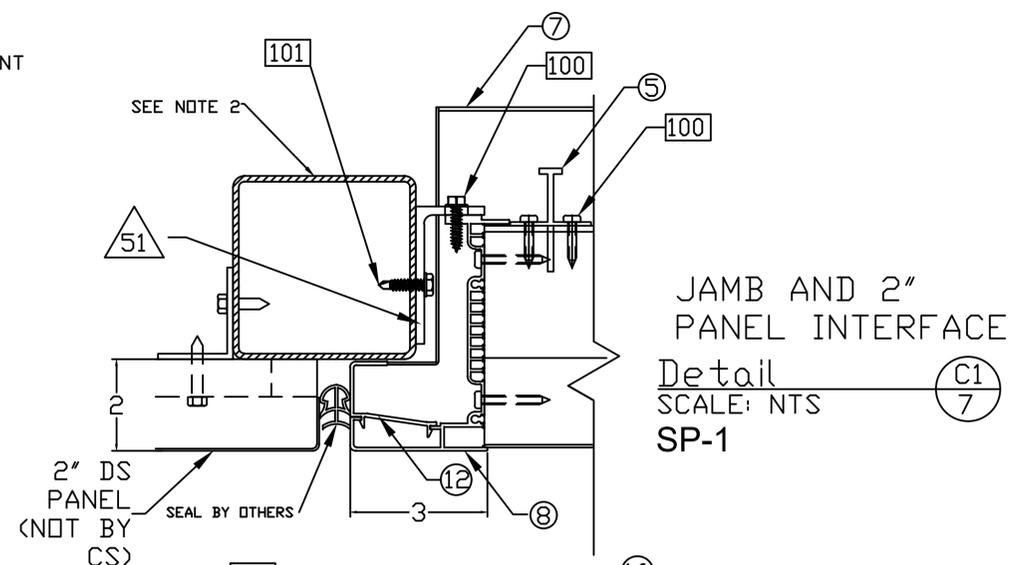
HEAD AND 2" PANEL INTERFACE
Detail SCALE: NTS SP-1



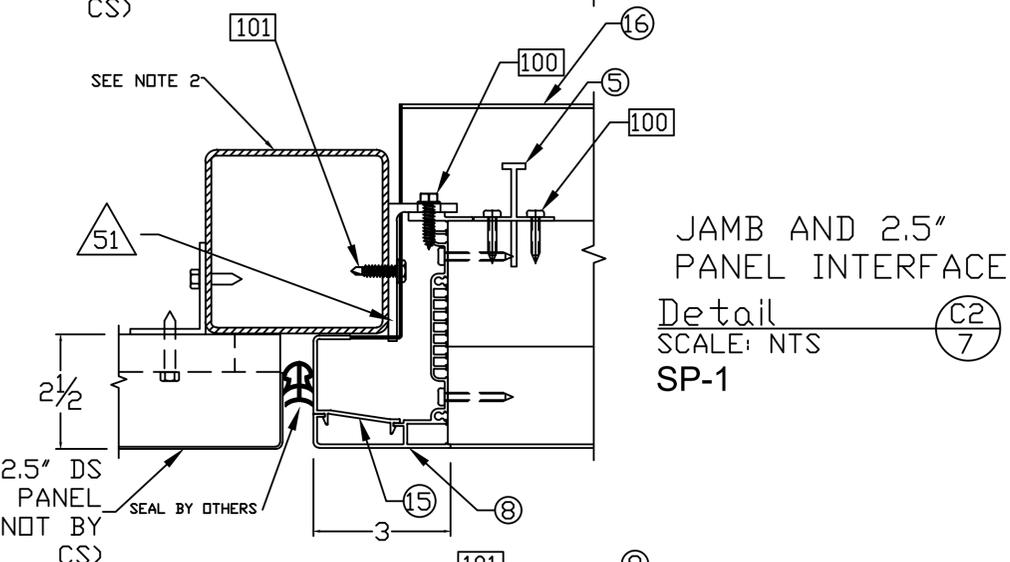
HEAD AND 2.5" PANEL INTERFACE
Detail SCALE: NTS SP-1



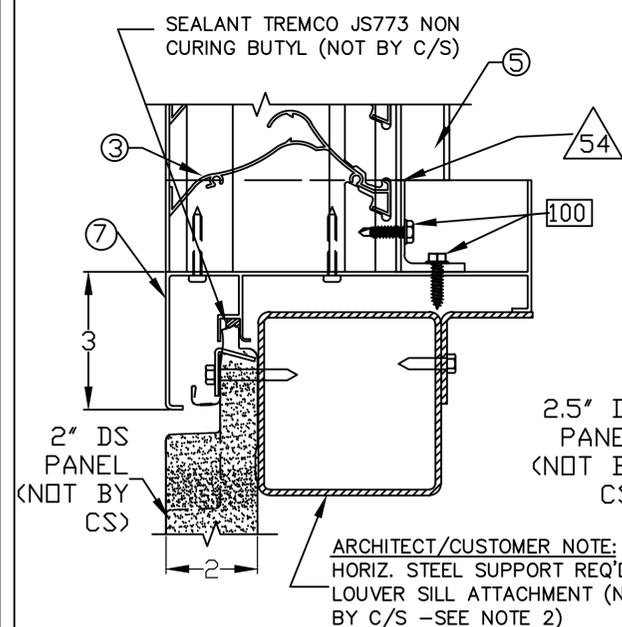
HEAD AND 3" PANEL INTERFACE
Detail SCALE: NTS SP-1



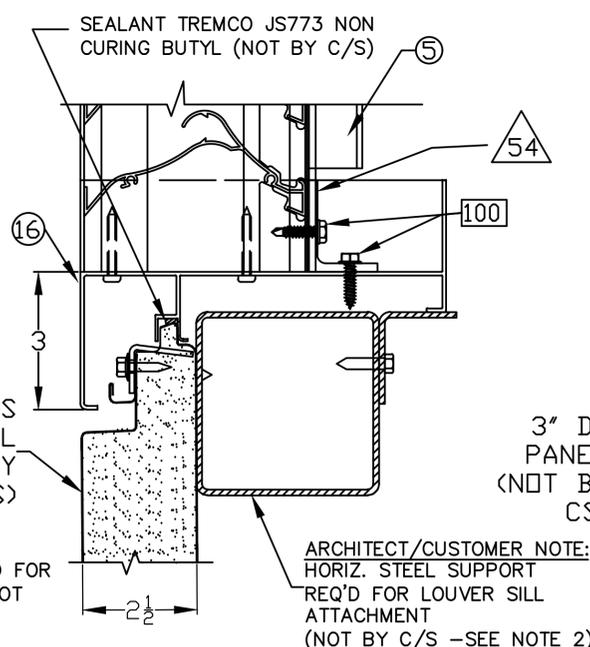
JAMB AND 2" PANEL INTERFACE
Detail SCALE: NTS SP-1



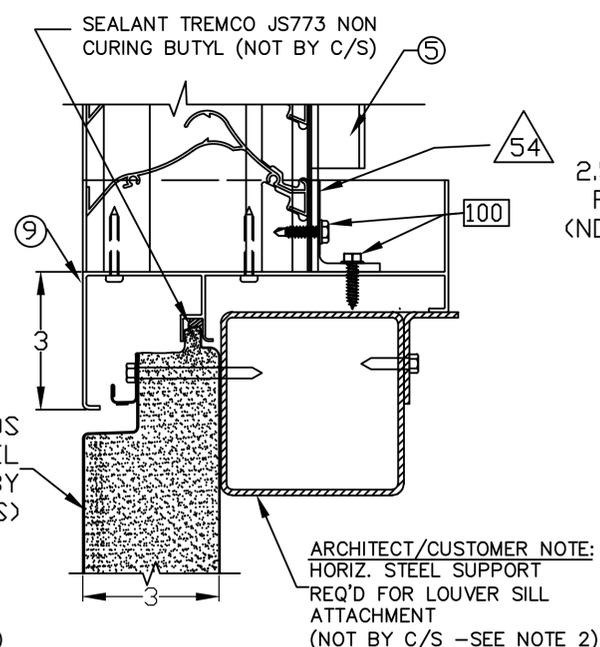
JAMB AND 2.5" PANEL INTERFACE
Detail SCALE: NTS SP-1



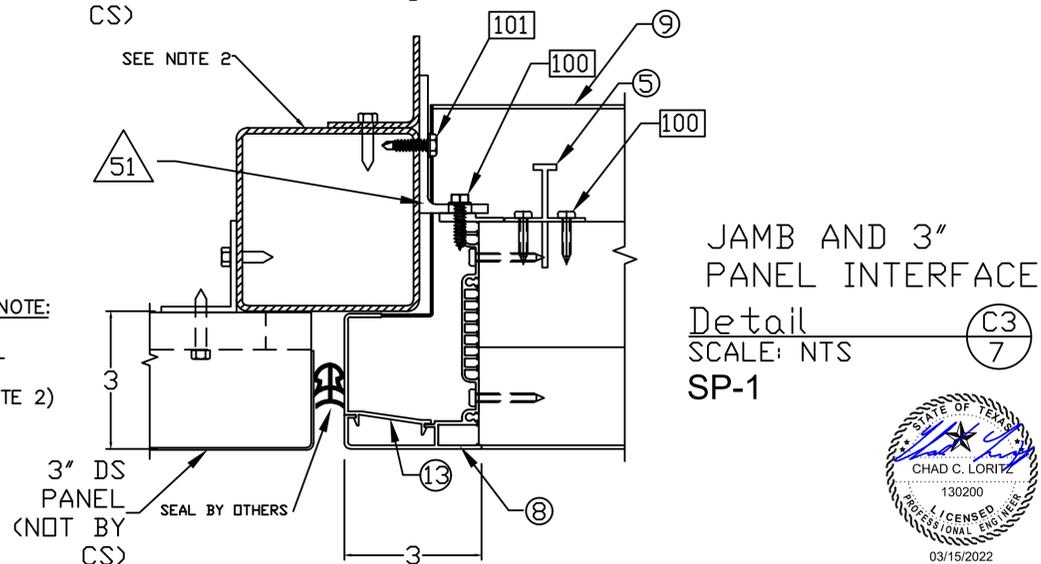
SILL AND 2" PANEL INTERFACE
Detail SCALE: NTS SP-1



SILL AND 2.5" PANEL INTERFACE
Detail SCALE: NTS SP-1



SILL AND 3" PANEL INTERFACE
Detail SCALE: NTS SP-1



JAMB AND 3" PANEL INTERFACE
Detail SCALE: NTS SP-1

Note 1 - Alternate frame components for DCH 5704 louvers to allow louver integration with CENTRIA horizontal panels in the Centria Formawall Dimension and Graphix systems. The details on page 7 apply to Specimen 1 only
Note 2 - Structural Supports may be 3/16" structural steel or Minimum 16 gauge galvanized cold formed steel

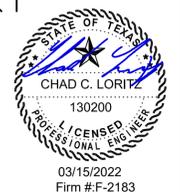
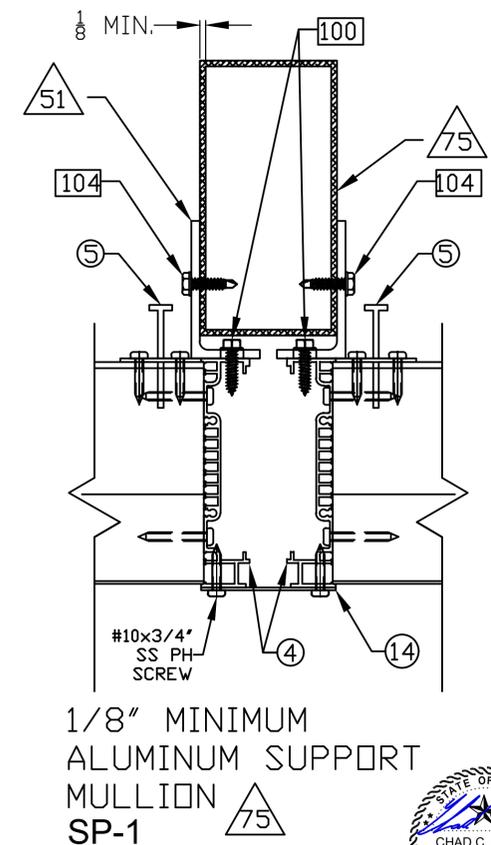
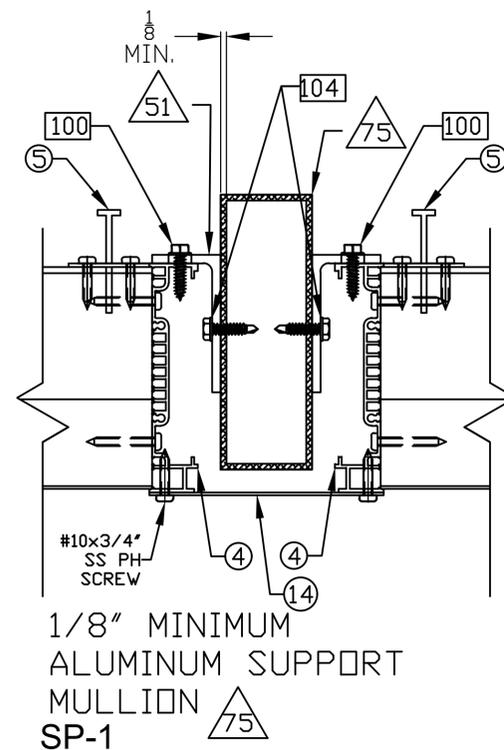
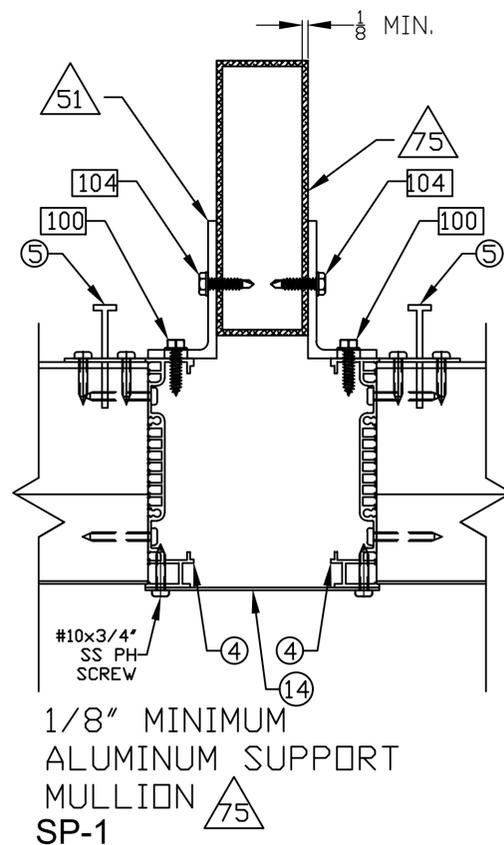
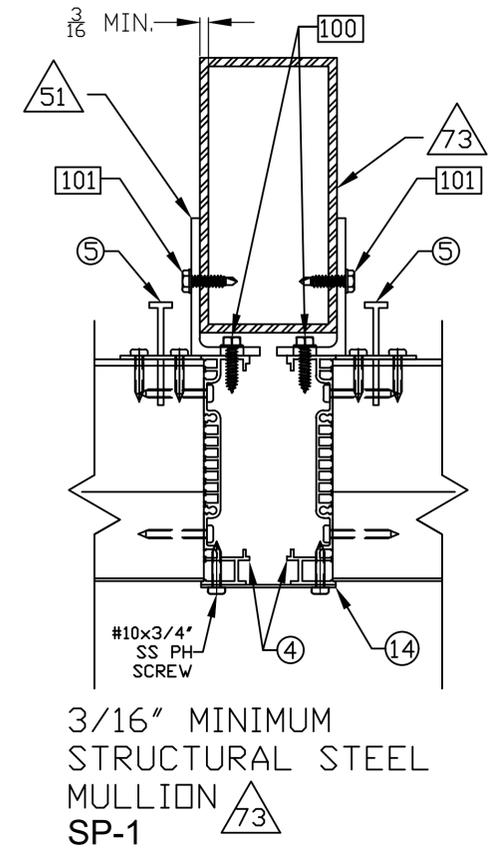
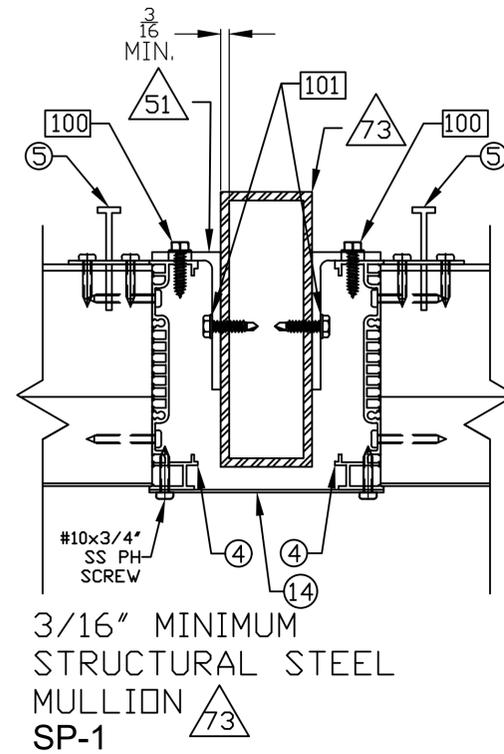
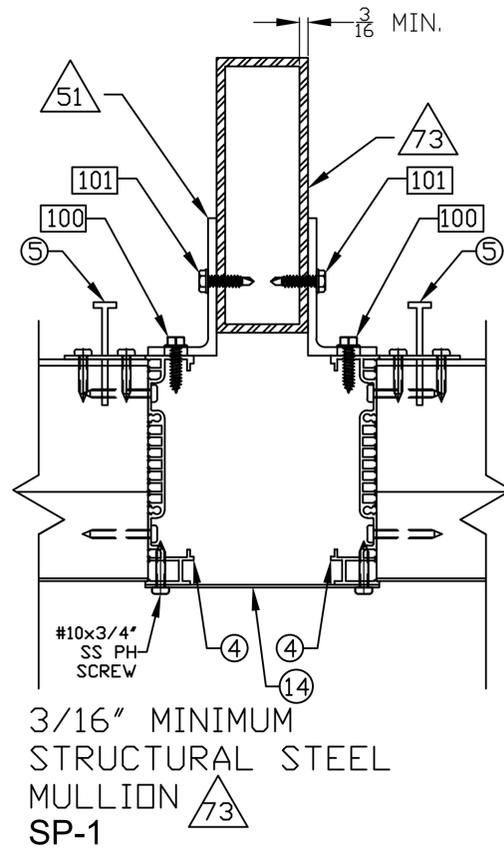


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SCALE: 3"-1'-0"
DRAWN BY: R. GEIST
REVISION: 2 01-08-2022
DATE: 10-02-08
SHEET: 7 OF 8
DRAW NO.: RD-1075



VERTICAL JOINT DETAILS FOR DCH-5704

For the DCH-5704, multiple panels may be stacked to an unlimited height if each end of the 144" panel is secured to structure. If the DCH-5704 is joined together with vertical joint (refer to sheet 8 of 8), then the number of panels that may be stacked is limited to the design of the mullions shown on sheet 8 of 8. Aluminum or Steel support must be properly anchored to building (top and bottom), and designed by Others.



REVISION: 2	01-08-2022
DATE: 10-02-08	
SHEET: 8 OF 8	
DRW NO: RD-1075	
PROJECT: DC-5704 FOR TEXAS DEPT OF INSURANCE	
TITLE: LAYOUT DRAWINGS	
SCALE: 3"=1'-0"	
DRW BY: R. GEIST	

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